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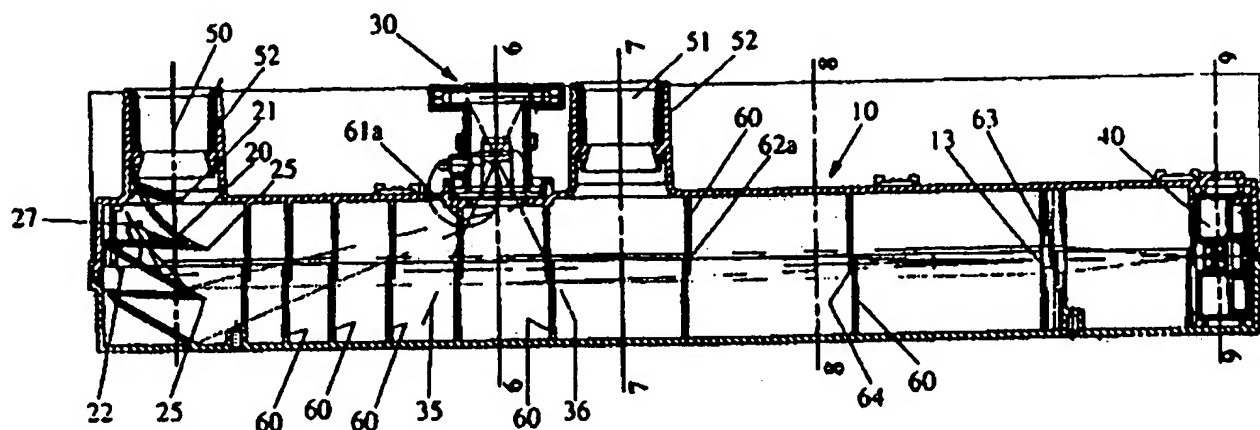
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(54) Title: IMPROVEMENTS RELATING TO A SAMPLING CHAMBER FOR A POLLUTION DETECTOR



(57) Abstract

A pollution/smoke detector apparatus is disclosed having a sample chamber of two part moulded plastic construction having a pair of matching interlocking pairs including a series of interfitting baffles (60, 63) forming a series of irises spaced along the chamber, the apparatus including at one end a light receptor (40) and a light absorber (20) at the other end, and an air sample area between the subject of a flash light emitted from a light source module (30) having a novel reflector element (32). The overall construction is easily assembled and disassembled for maintenance and yet provides effective and efficient operation.



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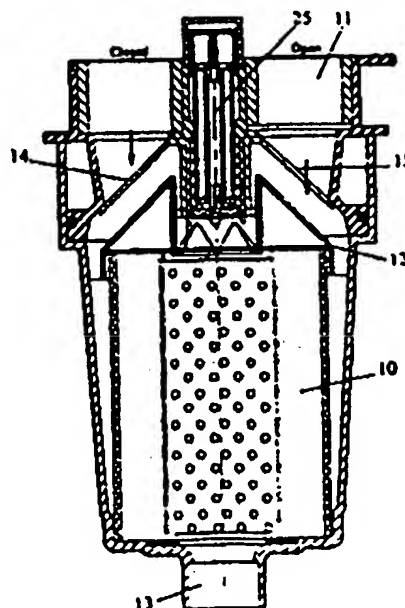
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(54) Title: IMPROVEMENTS RELATING TO SMOKE DETECTION SCANNING APPARATUS

(57) Abstract

A smoke/pollution detection apparatus embodying a manifold valve assembly (11) including four inlet ports leading into a spreader cone (12) for deflecting gas/airstream, drawn from a plurality of zones under surveillance through a pipe reticulation system comprising a plurality of pipes communicating with said zones, from the manifold (11) around the top of a dust filter (10). A valve means including a reciprocating, rotating matching thin conical bell (14) situated over the cone (12) may be raised to an upward position where a hole (15) is arranged to be aligned with one of the ports such that the others are blocked, and gas/airstream from the particular pipe joined to the open port is sampled. Selective closing of the inlet ports to the assembly (11) allows the locality of a zone of any detected smoke/pollution to be quickly identified by the apparatus and in which all ports to the apparatus remain open under normal circumstances (no pollution detected) and all monitored zones remain coupled to a detector and there is no power drawn nor any movement of any parts including the valve means in the inoperative condition.



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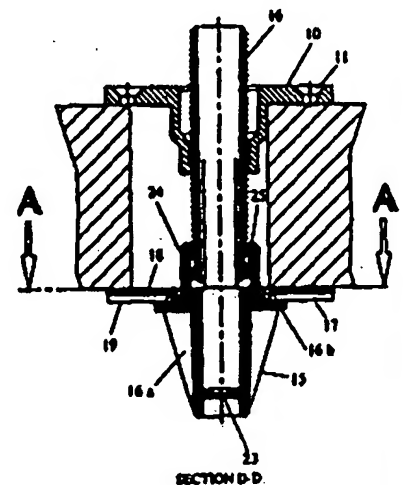
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(54) Title: GAS SAMPLING POINT FOR SMOKE/POLLUTION DETECTION SYSTEMS

(57) Abstract

A sampling point (110) for use in a pollution/smoke detection system for fixture to an apertured panel in a building, this system including a plurality of said sampling points (110) for connection to an aspirated gas reticulation system for drawing gas from said sampling points (110) exposed to a space under surveillance, said sampling point including a portion (19) for securement to a retaining means (10) and a capillary tube (15a) communicating between the sampling point (110) and said aspirated gas reticulation system, the sampling point (110) having an orifice (116) of a predetermined size to communicate between an area to be surveyed and the gas reticulation system, said capillary tube (116) conforming to standard smoke detection requirements as to bore strength flexibility and crush resistance, said sampling point (110) being adapted to be fitted from either the visible or blind side of the apertured panel and including collapsible shroud means (17, 18) capable of passing through said apertured panel and expanding to hide the panel aperture from which it has emerged. A cover (117) releasably fitted to an apertured mounting base (111) and a capillary tube (113) for communicating the mounting base (111) and the gas reticulation system through an aperture, wherein the mounting base (111) and the cover (117) interconnect with a press fit, said cover (117) comprising an aesthetically formed shroud for the sampling point (110), is also disclosed.



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